What is Claimed:

1. A system for batching tasks in a build process comprising:

a build engine that receives a project file and generates executable code from the project file, the project file comprising at least one task, the at least one task consuming at least one item of a plurality of items, each of the plurality of items associated with a value representing a set of attributes, the build engine batching the plurality of items based on the value representing the set of attributes for each item.

- 2. The system of claim 1, wherein the value representing the set of attributes comprises an identity of the item.
- 3. The system of claim 1, wherein the set of attributes comprises at least one attribute of a plurality of attributes, the at least one attribute associated with a scalar.
- 4. The system of claim 2, wherein the build engine batches the plurality of items based on the identity associated with each of the plurality of items, generating a separate batch for each unequal identity.
- 5. The system of claim 4, wherein the at least one task is executed once for each generated batch.
- 6. A method for batching build tasks comprising:

receiving a build task, the build task consuming task input, the task input comprising at least one item of a plurality of items, each of the plurality of items associated with an identity comprising a value for a set of attributes;

analyzing the task input to generate at least a first bucket for items associated with a first identity and a second bucket for items associated with a second identity, wherein the first identity and the second identity are unequal; and

executing the build task once for each generated bucket.

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- 7. The method of claim 6, wherein a plurality of satellite assemblies are automatically generated.
- 8. The method of claim 6, wherein a plurality of assemblies are automatically generated.
- 9. The method of claim 6, wherein an executable is automatically invoked once for each entry in a list.
- 10. The method of claim 6, wherein the plurality of items is filtered based on an attribute.
- 11. The method of claim 6, wherein the plurality of items is filtered based on a plurality of attributes.
- 12. The method of claim 6, wherein only out-of-date batches are processed.
- 13. The method of claim 6, wherein the at least one item is of a first type.
- 14. The method of claim 13, wherein executing the build task transforms the at least one item of the first type to an item of a second type.
- 15. The method of claim 6, wherein the identity comprises at least one scalar of a plurality of scalars, the at least one scalar comprising a value for one attribute.
- 16. The method of claim 15, wherein the attribute value may be pre-defined.
- 17. The method of claim 16, wherein the attribute value may be declared.
- 18. A method for batching build tasks comprising:

receiving a build task, the build task consuming a plurality of items, each of the plurality of items associated with an identity comprising a value for a set of attributes;

grouping items having a first identity into a first bucket;

grouping items having a second identity into a second bucket, wherein the first identity and the second identity are unequal; and

executing the build task once for the first bucket and once for the second bucket.

- 19. The method of claim 18, further comprising automatically generating a plurality of assemblies.
- 20. The method of claim 18, further comprising automatically invoking an executable once per entry in a list.
- 21. The method of claim 18, further comprising filtering the plurality of items based on an attribute.
- 22. The method of claim 18, further comprising filtering the plurality of items based on a plurality of attributes.
- 23. The method of claim 18, further comprising processing only out-of-date batches.
- 24. The method of claim 18, wherein at least one item of the plurality of items is of a first type.
- The method of claim 24, wherein executing the build task transforms the at least one item of the first type to an item of a second type.
- 26. A computer-readable medium comprising computer-executable instructions for:
 receiving a build task, the build task consuming a plurality of items, each of the plurality
 of items associated with an identity comprising a value for a set of attributes;

grouping items having a first identity in a first bucket;

grouping items having a second identity in a second bucket, wherein the first identity and the second identity are unequal; and

executing the build task once for the first bucket and once for the second bucket.

- 27. The computer-readable medium of claim 26, wherein executing the build task programmatically generates a plurality of assemblies.
- 28. The computer-readable medium of claim 26, wherein executing the build task programmatically invokes an executable once per entry in a list.

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- 29. The computer-readable medium of claim 26, wherein executing the build task filters the plurality of items.
- 30. The computer-readable medium of claim 26, wherein executing the build task filters the plurality of items based on a plurality of attributes.